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September 16, 2004

### By Hand Delivery

Mary L. Cottrell, Secretary
Department of Telecommunications and Energy
One South Station, 2<sup>nd</sup> floor
Boston, MA 02110

Re: Bay State Gas Company, D.T.E. 04-80

Dear Ms. Cottrell:

Enclosed please find the responses of Bay State Gas Company to the following requests in the Department's First Set of Information Requests: DTE 1-2, 1-3, 1-7, 1-12 and 1-17.

Please contact me if you have any questions.

Very truly yours,

Robert L. Dewees, Jr.

RLD/tlm Enclosures

cc: N

Marcella Hickey

Paul Osborne

Tom Carey

Cynthia Bradbury

James H. Keshian

# RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS OF THE DEPARTMENT D.T.E. 04-80

Date: September 16, 2004

Witness Responsible: Vincent Rea

DTE 1-2:

Refer to the pre-filed testimony of Vincent Rea at 4, lines 10-12. Please list the anticipated capital requirements, by category and amount, that are intended to support the Company's public service obligations.

RESPONSE: The capital requirements will include the normal type of expenditures necessary to support the Company's public service obligations. Based on the Company's 2004 capital spending forecast, these would include items such as meter work (\$.5 million), mains added for new growth (\$6.9 million), technology (\$2.8 million), and main replacement (\$9.9 million). The Company expects 2005 capital spending levels to be similar to 2004 levels with the exception of additional funding required for accelerated replacement of non-cathodically protected (bare steel) pipe.

### RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS OF THE DEPARTMENT D.T.E. 04-80

Date: September 16, 2004

Witness Responsible: Vincent Rea

DTE 1-3:

Refer to the pre-filed testimony of Vincent Rea at 4, lines 3-8. Please provide an illustrative example of how the interest rate for the proposed notes will be determined. For purposes of this response, use the most recently available Treasury yields and current credit spreads associated with a five-year note.

RESPONSE: Illustrative example of how the interest rate for the proposed note will be determined:

Applicable 5-year Treasury yield (1)

3.40%

Reuters Corporate Spreads for Utilities (2)

.87%

Illustrative - Interest Rate for Proposed Note

4.27%

- From Federal Reserve Statistical Release H.15 Selected Interest (1) Rates (Daily) - September 10, 2004
- From Bonds Online Reuters Corporate Spreads for (2) Utilities - September 10, 2004

# Federal Reserve Statistical Release

### H.15

# **Selected Interest Rates**

Release Date: September 13, 2004

Release dates | Daily update | Historical data | About

Current release Other formats: Screen reader | ASCII | PDF (17 KB)



# FEDERAL RESERVE STATISTICAL RELEASE H.15 (519)

For immediate release September 13, 2004

5.03 4.96 4.99 4.97 4.99 4.98 5.07

SELECTED INTEREST RATES Yields in percent per annum

20-year 11

Yields in percent per annum	ا *								
	2004	2004	2004	2004	1 200	4 W	eek En	ding	2004
	Sep	Sep	Sep	Sep	Sep	Sep	Sep	Aug	
Instruments	6	7	8	9	10	10	3		
U.S. government securities									
Treasury bills (secondary	marke	t) 3 4							
4-week		1.49	1.55	1.55	1.58	1.54	1.43	1.35	
3-month		1.64	1.62	1.61	1.63	1.63	1.58	1.48	
6-month		1.87	1.84	1.84	1.83	1.85	1.78	1.72	
Treasury constant maturit	ies								
Nominal 10									
1-month		1.53	1.57	1.57	1.60	1.57	1.46	1.37	
3-month		1.66	1.65	1.64	1.66	1.65	1.61	1.50	
6-month		1.91	1.88	1.88	1.87	1.89	1.82	1.76	
1-year		2.13	2.09	2.09	2.08	2.10	2.03	2.02	
2-year		2.58	2.50	2.50	2.50	2.52	2.47	2.51	
3-year		2.91	2.83	2.85	2.84	2.86	2.81	2.88	
5-year		3.48	3.40	3.41	3.40	3.42	3.39	3.47	
7-year		3.89	3.80	3.84	3.79	3.83	3.82	3.90	
10-year		4.26	4.18	4.22	4.19	4.21	4.19	4.28	



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Treasury Yield Curve Composite Bond Yields Corporate Bond Spreads

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# **Reuters Corporate Spreads for Utilities**

Spreads compiled using: Reuters Evaluators - Refresh Download spread file

Rating	1 vr	2 vr	3 yr	5 yr	7 yr	10 yr	30 yr
Aaa/AAA	1	3	4	6	10	15	37
Aal/AA+	6	7	11	23	25	29	49
Aa2/AA	11	13	17	26	30	42	58
Aa3/AA-	16	20	22	30	38	54	77
A1/A+	19	25	26	43	48	69	79
A2/A	22	25	28	49	52	72	81
A3/A-	31	36	41	55	65	73	99
Baa1/BBB+	45	56	61	77	82	89	109
Baa2/BBB	58	67	75	87	93	114	126
Baa3/BBB-	64	83	87	95	103	126	134
Bal/BB+	315	387	370	302	245	275	230
Ba2/BB	325	350	375	305	205	210	260
Ba3/BB-	305	330	350	325	220	265	320
B1/B+	385	425	555	460	315	375	300
B2/B	515	540	605	510	320	445	470
<i>B3/B</i> -	590	620	710	610	470	545	620
Caa/CCC	680	750	855	810	595	620	720

Note: Reuters Evaluator spreads for bullet bonds.

## **Other Corporate Bond Spreads**

Banks
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# RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS OF THE DEPARTMENT D.T.E. 04-80

Date: September 16, 2004

Witness Responsible: Vincent Rea

DTE 1-7: Refer to the pre-filed testimony of Vincent Rea at 5, lines 9-10. Please explain what is meant by the Company's statement that it will calculate the interest rate "based upon a simple linear interpolation method."

RESPONSE: The following is an explanation of what is meant by "simple linear interpolation method".

If Bay State were to decide to issue an 8-year note, neither the Federal Reserve Statistical Release or the Reuters Corporate Spreads for Utilities provide an 8-year reference rate. However, both of these reference sources provide both a 7-year reference rate and a 10-year reference rate. By using simple linear interpolation, the 8-year reference rates can be found as follows:

### 8-Year Treasury Note Interpolation [1]

7-Year Treasury Note Yield 10-Year Treasury Note Yield		3.79% 4.19%
Linear increment between 7-Year Treasury and 10-Year Treasury		4.19% - 3.79% = .40%
1-Year Linear Increment		.40% / 3 years = .133%
7-Year Treasury Note Yield 1-Year Linear Increment Interpolated 8-Year Treasury Yield	+	3.79% <u>.133%</u> 3.923%

### 8-Year Corporate Spread for Utilities [1]

7-Year Corporate Spread for Utilities	.93%
10-Year Corporate Spread for Utilities	1.14%

Linear Increment Between 7-Year	Corporate Spread and
---------------------------------	----------------------

10-Year Corporate Spread 1.14% - .93% = .21%

1-Year Linear Increment .21% / 3 years = .07%

7-Year Corporate Spread for Utilities .93%
1-Year Linear Increment + .07%
Interpolated 8-Year Corporate Spread 1.00%

Interpolated Interest Rate for 8-Year Note 3.923% + 1.00% = 4.923%

[1] Rates as of Friday September 10,2004

# Federal Reserve Statistical Release

## H.15

# **Selected Interest Rates**

Release Date: September 13, 2004

Release dates | Daily update | Historical data | About

Current release Other formats: Screen reader | ASCII | PDF (17 KB)



# FEDERAL RESERVE STATISTICAL RELEASE H.15 (519)

SELECTED INTEREST RATES

Yields in percent per annum

20-year 11

For immediate release September 13, 2004

5.03 4.96 4.99 4.97 4.99 4.98 5.07

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A1/A+	19	25	26	43	48	69	79
A2/A	22	25	28	49	52	72	81
A3/A-	31	36	41	55	65	73	99
Baa1/BBB+	45	56	61	77	82	89	109
Baa2/BBB	58	67	75	87	93	114	126
Baa3/BBB-	64	83	87	95	103	126	134
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Note: Reuters Evaluator spreads for bullet bonds.

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# RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS OF THE DEPARTMENT D.T.E. 04-80

Date: September 16, 2004

Witness Responsible: Vincent Rea

DTE 1-12: Refer to Exhibit 7 in the Company's Petition. Please provide a breakdown, by account, of the \$747,111,849 reported for gross utility plant. As part of this response, provide the acquisition premium and construction work in progress balances that were removed from the gross utility plant calculation.

RESPONSE: As of June 30,2004, The Total Gross Utility Plant of \$747,111,849 was comprised of \$39,403,286 of Intangible Plant, \$23,113,551 of Production Plant, \$636,598,820 of Transmission & Distribution Plant, and \$47,996,192 of General Plant. Please see Attachment DTE 1-12 for further detail.

As of June 30, 2004, Bay State Gas had a \$10,389,597 Construction Work In Progress balance and a \$381,359,127 Net Acquisition Premium balance (Construction Work In Progress and Net Acquisition Premium are *not* included in the Total Gross Utility Plant amount reported above). Please see Attachment DTE 1-12 for further detail.

Gross Utility Plant Breakdown, Construction Work In Progress, and Plant Acquisition Premium As of June 30, 2004

### **GROSS UTILITY PLANT**

Account	Description	As of J	une 30, 2004	
ntangible Pla		•	4 400 040	
301	Organization	\$	4,432,919	
303	Miscellaneous Intangible Plant		34,970,367	
	Total Intangible Plant		39,403,286	
Production P				
304	Land and Land Rights		412,592	
305	Structures and Improvements		2,360,315	
311	Liquefied Petroleum Gas Equipment		4,286,444	
320	Other Equipment		819,115	
321	LNG Equipment		15,235,085	
	Total Production Plant		23,113,551	
ransmissior	& Distribution Plant			
365	Land and Land Rights		298,092	
366	Structures and Improvements		2,108,612	
367	Mains		297,122,901	
368	Compressor Station Equipment		327,265	
369	Measuring and Regulating Station Equipment		11,827,323	
379	Other Equipment		510,252	
380	Services		219,375,324	
381	Meters		24,658,961	
382	Meter Installations		43,795,348	
383	House Regulators		13,565,817	
386	Other Property on Customers Premise		21,301,442	
387	Other Equipment		1,707,483	
	Total Transmission & Distribution Plant		636,598,820	
General Plan	•			
389	Land and Land Rights		172,321	
390	Structures and Improvements		7,026,832	
391	Office furniture and Equipment		11,200,693	
392	Transportation Equipment		2,358,533	
393	Stores Equipment		50,473	
394	Tools, Shop, and Garage Equipment		1,765,711	
396	Power Operated Equipment		406,425	
397	Communications Equipment		24,989,985	
398	Miscellaneous Equipment		25,219	
000	Total General Plant		47,996,192	
Total Gross	Jtility Plant	\$	747,111,849	
CONSTRUCT	TION WORK IN PROGRESS	As of	June 30, 2004	
Construction	Work in Progress		<u>\$ 10,389,597</u>	
PLANT ACQ	UISITION PREMIUM			
		As of	June 30, 2004	
Green Blant	Acquisition Adjustment	\$	443,450,715	
Gross Plant	Acquisition Adjustment I Amortization of Plant Acquisition Adjustment	\$	443,450,715 (62,091,588	

# RESPONSE OF BAY STATE GAS COMPANY TO THE FIRST SET OF INFORMATION REQUESTS OF THE DEPARTMENT D.T.E. 04-80

Date: September 15, 2004

Witness Responsible: Vincent Rea

DTE 1-17: Please provide the most recently available Form 10-Q for Nisource.

RESPONSE: Please see Attachment DTE 1-17.